

BMH1001T16F1A

servo motor BMH - 3.4 Nm - 6000 rpm - keyed
shaft - with brake - IP54



Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	6000 rpm
Continuous stall torque	30.09 lbf.in (3.4 N.m) for LXM32.D30M2 10 A at 115 V single phase 30.09 lbf.in (3.4 N.m) for LXM32.D18M2 6 A at 230 V single phase
Peak stall torque	90.27 lbf.in (10.2 N.m) for LXM32.D18M2 6 A at 230 V single phase 78.76 lbf.in (8.9 N.m) for LXM32.D30M2 10 A at 115 V single phase
Nominal output power	900 W for LXM32.D18M2 6 A at 230 V single phase 700 W LXM32.D30M2 10 A at 115 V single phase
Nominal torque	29.2 lbf.in (3.3 N.m) for LXM32.D30M2 10 A at 115 V single phase 24.78 lbf.in (2.8 N.m) for LXM32.D18M2 6 A at 230 V single phase
Nominal speed	2000 rpm for LXM32.D30M2 10 A at 115 V single phase 3000 rpm for LXM32.D18M2 6 A at 230 V single phase
Product compatibility	LXM32.D30M2 at 115 V single phase LXM32.D18M2 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	32768 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	240 V
Phase	Three phase
Continuous stall current	5.11 A
Continuous power	1.74 W
Maximum current Irms	15 A LXM32.D30M2 19.4 A for LXM32.D18M2
Maximum permanent current	19.38 A
Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	1.18 in (30 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	48.67 lbf.in (5.5 N.m) (holding brake)
Motor flange size	3.94 in (100 mm)
Number of motor stacks	1
Torque constant	0.67 N.m/A at 248 °F (120 °C)

Back emf constant	43.3 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	3.68 kg.cm ²
Stator resistance	1.19 Ohm at 68 °F (20 °C)
Stator inductance	5.3 mH at 68 °F (20 °C)
Stator electrical time constant	4.5 ms at 68 °F (20 °C)
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	12 W
Type of cooling	Natural convection
Length	6.7 in (170.3 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Product weight	10.58 lb(US) (4.8 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	003606485197036
Nbr. of units in pkg.	1
Package weight(Lbs)	11.220000000000001
Returnability	N
Country of origin	DE

Offer Sustainability

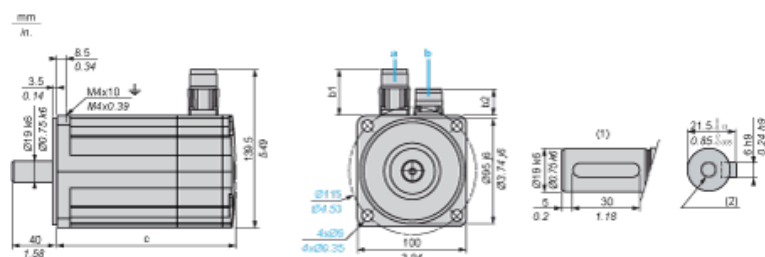
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations
California proposition 65	WARNING: This product can expose you to chemicals including:
----- Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.
----- More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months
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Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
- (2) For screw M6 x 21 mm/M6 x 0.83 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
39.5	25.5	39.5	39.5	128	170

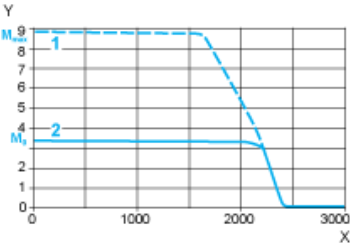
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	5.03	6.69

115 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive

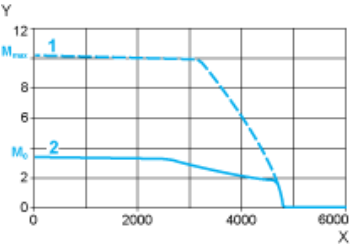


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18M2 servo drive



- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque